

VECTOR CALCULUS SOLUTIONS

1.) Gradient

Position vector:

$$\mathbf{r} = x\mathbf{i} + y\mathbf{j} + z\mathbf{k}$$
$$r = |\mathbf{r}| = \sqrt{x^2 + y^2 + z^2}$$

Equation a:

$$\varphi(x, y, z) = x^2 + y^2 + z^2$$
$$\nabla\varphi = \frac{\partial\varphi}{\partial x}\mathbf{i} + \frac{\partial\varphi}{\partial y}\mathbf{j} + \frac{\partial\varphi}{\partial z}\mathbf{k}$$
$$\nabla\varphi = \frac{\partial}{\partial x}(x^2 + y^2 + z^2)\mathbf{i} + \frac{\partial}{\partial y}(x^2 + y^2 + z^2)\mathbf{j} + \frac{\partial}{\partial z}(x^2 + y^2 + z^2)\mathbf{k}$$
$$\nabla\varphi = (2x + 0 + 0)\mathbf{i} + (0 + 2y + 0)\mathbf{j} + (0 + 0 + 2z)\mathbf{k}$$
$$\nabla\varphi = 2x\mathbf{i} + 2y\mathbf{j} + 2z\mathbf{k}$$

Write in terms of the position vector:

$$\varphi(x, y, z) = x^2 + y^2 + z^2 = r^2$$
$$\nabla\varphi = 2x\mathbf{i} + 2y\mathbf{j} + 2z\mathbf{k} = 2(x\mathbf{i} + y\mathbf{j} + z\mathbf{k}) = 2\mathbf{r}$$

Therefore:

$$\nabla r^2 = 2\mathbf{r}$$

Equation b:

$$\varphi(x, y, z) = \frac{1}{\sqrt{x^2 + y^2 + z^2}}$$
$$\nabla\varphi = \frac{\partial\varphi}{\partial x}\mathbf{i} + \frac{\partial\varphi}{\partial y}\mathbf{j} + \frac{\partial\varphi}{\partial z}\mathbf{k}$$
$$\nabla\varphi = \frac{\partial}{\partial x}\left(\frac{1}{\sqrt{x^2 + y^2 + z^2}}\right)\mathbf{i} + \frac{\partial}{\partial y}\left(\frac{1}{\sqrt{x^2 + y^2 + z^2}}\right)\mathbf{j} + \frac{\partial}{\partial z}\left(\frac{1}{\sqrt{x^2 + y^2 + z^2}}\right)\mathbf{k}$$
$$\nabla\varphi = -\frac{x}{(x^2 + y^2 + z^2)^{\frac{3}{2}}}\mathbf{i} - \frac{y}{(x^2 + y^2 + z^2)^{\frac{3}{2}}}\mathbf{j} - \frac{z}{(x^2 + y^2 + z^2)^{\frac{3}{2}}}\mathbf{k}$$

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